

Future Flight Design			
2009 Science			
Standards			
<b>Oregon Science</b>			
<b>Grade 5</b>			
<b>Activity/Lesson</b>	<b>State</b>	<b>Standards</b>	
Air Transportation Problem	OR	SCI.5.5.3S.1	Based on observations and science principles, identify questions that can be tested, design an experiment or investigation, and identify appropriate tools. Collect and record multiple observations while conducting investigations or experiments to test a scientific question or hypothesis.
Air Transportation Problem	OR	SCI.5.5.3S.2	Identify patterns in data that support a reasonable explanation for the results of an investigation or experiment and communicate findings using graphs, charts, maps, models, and oral and written reports.
Air Transportation Problem	OR	SCI.5.5.4D.2	Design and build a prototype of a proposed engineering solution and identify factors such as cost, safety, appearance, environmental impact, and what will happen if the solution fails.
Aircraft Design Problem	OR	SCI.5.5.4D.1	Using science principles describe a solution to a need or problem given criteria and constraints.
Aircraft Design Problem	OR	SCI.5.5.4D.2	Design and build a prototype of a proposed engineering solution and identify factors such as cost, safety, appearance, environmental impact, and what will happen if the solution fails.
Future Flight Design			
2009 Science			
Standards			
<b>Oregon Science</b>			
<b>Grade 6</b>			
<b>Activity/Lesson</b>	<b>State</b>	<b>Standards</b>	
Air Transportation Problem	OR	SCI.6.6.3S.1	Based on observations and science principles, propose questions or hypotheses that can be examined through scientific investigation. Design and conduct an investigation that uses appropriate tools and techniques to collect relevant data.
Air Transportation Problem	OR	SCI.6.6.3S.2	Organize and display relevant data, construct an evidence-based explanation of the results of an investigation, and communicate the conclusions.

Aircraft Design Problem	OR	SCI.6.6.4D.2	Design, construct, and test a possible solution to a defined problem using appropriate tools and materials. Evaluate proposed engineering design solutions to the defined problem.
<b>Future Flight Design</b>			
<b>2009 Science</b>			
<b>Standards</b>			
<b>Oregon Science</b>			
<b>Grade 7</b>			
<b>Activity/Lesson</b>	<b>State</b>	<b>Standards</b>	
Air Transportation Problem	OR	SCI.7.7.3S.1	Based on observations and science principles, propose questions or hypotheses that can be examined through scientific investigation. Design and conduct a scientific investigation that uses appropriate tools and techniques to collect relevant data.
Air Transportation Problem	OR	SCI.7.7.3S.2	Organize, display, and analyze relevant data, construct an evidence-based explanation of the results of an investigation, and communicate the conclusions including possible sources of error.
Aircraft Design Problem	OR	SCI.7.7.2P.1	Identify and describe types of motion and forces and relate forces qualitatively to the laws of motion and gravitation.
Aircraft Design Problem	OR	SCI.7.7.4D.1	Define a problem that addresses a need and identify constraints that may be related to possible solutions.
Aircraft Design Problem	OR	SCI.7.7.4D.2	Design, construct, and test a possible solution using appropriate tools and materials. Evaluate the proposed solutions to identify how design constraints are addressed.
<b>Future Flight Design</b>			
<b>2009 Science</b>			
<b>Standards</b>			
<b>Oregon Science</b>			
<b>Grade 8</b>			
<b>Activity/Lesson</b>	<b>State</b>	<b>Standards</b>	
Air Transportation Problem	OR	SCI.8.8.3S.1	Based on observations and science principles, propose questions or hypotheses that can be examined through scientific investigation. Design and conduct a scientific investigation that uses appropriate tools, techniques, independent and dependent variables, and controls to collect relevant data.

Air Transportation Problem	OR	SCI.8.8.3S.2	Organize, display, and analyze relevant data, construct an evidence-based explanation of the results of a scientific investigation, and communicate the conclusions including possible sources of error. Suggest new investigations based on analysis of results.
Air Transportation Problem	OR	SCI.8.8.4D.1	Define a problem that addresses a need, and using relevant science principles investigate possible solutions given specified criteria, constraints, priorities, and trade-offs.
Air Transportation Problem	OR	SCI.8.8.4D.2	Design, construct, and test a proposed engineering design solution and collect relevant data. Evaluate a proposed design solution in terms of design and performance criteria, constraints, priorities, and trade-offs. Identify possible design improvements.
Air Transportation Problem	OR	SCI.8.8.4D.3	Explain how creating a new technology requires considering societal goals, costs, priorities, and trade-offs.
Aircraft Design Problem	OR	SCI.8.8.4D.1	Define a problem that addresses a need, and using relevant science principles investigate possible solutions given specified criteria, constraints, priorities, and trade-offs.
Aircraft Design Problem	OR	SCI.8.8.4D.2	Design, construct, and test a proposed engineering design solution and collect relevant data. Evaluate a proposed design solution in terms of design and performance criteria, constraints, priorities, and trade-offs. Identify possible design improvements.
Aircraft Design Problem	OR	SCI.8.8.4D.3	Explain how creating a new technology requires considering societal goals, costs, priorities, and trade-offs.